

Notice of Allowability

Application No.

10/521,696

Examiner

MANSOUR M. SAID

Applicant(s)

OGAWA, HARUMI

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/5/07.
2. ☒ The allowed claim(s) is/are 8-16 and renumbered as 1-9.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

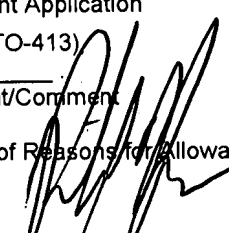
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413)
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

DETAILED ACTION

Allowable Subject Matter

1. Claims 8-16 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 8-16 are allowed since certain key features of the claimed invention are not taught or fairly suggested by prior art. In claims 8-9 and 14, "a light-receiving means for outputting a signal based on photoelectromotive force generating in individual light-emitting diodes among said plurality of light-emitting diodes; a scanning control means for controlling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of part of light-emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state; a generating means for generating two-dimensional residual image data of said plurality of light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said part of light-emitting diodes; a storing means for storing said two-dimensional residual image data; and a light-emission control means for controlling said light-emitting means to make said plurality of light-emitting diodes emit light based on said two-dimensional residual image data stored in said storing means, in accordance with swinging of said housing". In claim 10, a light-receiving means for outputting a signal based on photoelectromotive force generating in individual light-emitting diodes; a scanning control means for controlling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of part of light-

Art Unit: 2629

emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state; a generating means for generating two-dimensional residual image data of said plurality of light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said part of light-emitting diodes; a storing means for storing said two-dimensional residual image data; and a light-emission control means for controlling said light-emitting means to make said plurality of light-emitting diodes emit light based on said two-dimensional residual image data is equal to or less than 1/30 second". **Claim 15,** "a light-receiving means for outputting a signal based on photoelectromotive force generating in individual light-emitting diodes; a scanning control means for controlling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of part of light-emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state; a generating means for generating two-dimensional residual image data of said plurality of light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said part of light-emitting diodes; a storing means for storing said two-dimensional residual image data; and a light-emission control means for controlling said light-emitting means to make said plurality of light-emitting diodes emit light based on said two-dimensional residual image data stored in said storing means, and controlling said light-emitting means to make said plurality of different color light-emitting diodes corresponding to each of said light-emitting means which does not emit light, in accordance with swinging of said

housing". The closest prior art Yajima Hiroshi (JP-08-097969) teaches a scanning type display device includes LEDs are lighted one by one sequentially to read outputs of light receiving elements, reading a linear image and the read processing of the linear image is repeated synchronously with the displacement to read a 2-dimension image and the read image data are stored in memory; however, singularly or in combination with other prior art, fail to anticipate or render the claimed limitations, such as "a scanning control means for controlling said light-emitting means to make each of said light-emitting diodes emit light which is positioned neighboring said each of part of light-emitting diodes that said light-receiving means outputs said signal based on the photoelectromotive force of, and for controlling said light-receiving means to output said signal in the light-emitting state; a generating means for generating two-dimensional residual image data of said plurality of light-emitting diodes, based on the signals which are outputted from said light-receiving means and which are based on the photoelectromotive force of said part of light-emitting diodes".

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mansour M. Said whose telephone number is 571-272-7679. The

Art Unit: 2629

examiner can normally be reached on Monday through Thursday from 8:30-6:00 P.M. The examiner can also be reached on alternate Friday from 8:30 a.m. to 5:00 p.m. EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe whose telephone number is 571-272-7681.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: 571-273-8300 (for Technology Center 2600 only)

Hand-delivered responses should be brought to the Customer Service Window at the Randolph Building, 401, Dulany Street, Alexandria, VA 22314.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mansour M. Said

11/12/07



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600